AMENDMENT UNDER 37 C.F.R. § 1.114(c)

U.S. Application No.: 09/788,566

Attorney Docket No.: Q63195

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:** 

1. and 2. (canceled).

3. (currently amended): A system for monitoring packets transmitted on a channel

connecting an application server and an end-user of said application server to each other, said

system comprising:

(a) a certification server which certificates an end-user; and

(b) a packet monitor device which, on-upon receipt of a request from said certification

server, monitors packets transmitted on said channel,

wherein said certification server includes:

(a1) a first memory which stores a user management table including ID numbers

of end-users, passwords by which the end-users are identified, a monitoring parameter

designating a packet to be monitored, and a threshold parameter designating a method of

monitoring said packet; and

(a2) a second device which transmits a request to said packet monitor device to

start or finish monitoring said packet at a timing when said end-user logs-in or logs-out his/her

terminal,

wherein said packet monitor device includes:

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(b1) a fourth memory which stores a first time at which a packet transmitted from one of said application server and said end-user arrives, when said packet monitor device receives a request from said second device to monitor said packet;

- (b2) an analyzer which monitors a second time at which packets meeting said monitoring parameter arrive, and determines whether any rule has been satisfied in-during an interval between said first time and said second time; and
- (b3) an annunciator which makes annunciation to said end-user when a certain rule is satisfied in-during said interval; and

wherein said packet monitor device is configured to monitor at least one of a data sequence of said packets, a service identifier of said packets and a checksum of said packets.

- 4. (currently amended): A system for monitoring packets transmitted on a channel connecting an application server and an end-user of said application server to each other, <u>said</u> <u>system</u> comprising:
  - (a) a certification server which certificates an end-user; and
- (b) a packet monitor device which, on receipt of a request from said certification server, monitors packets transmitted on said channel,

wherein said certification server includes:

(a1) a first memory which stores a user management table including ID numbers of end-users, passwords by which the end-users are identified, a monitoring parameter designating a packet to be monitored, and a threshold parameter designating a method of monitoring said packet; and

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(a2) a second device which transmits a request to said packet monitor device to start or finish monitoring said packet at a timing when said end-user logs-in or logs-out his/her terminal,

wherein said certification server includes a first device which updates said monitoring parameter and said threshold parameter, when instructed by said end-user,

wherein said packet monitor device monitors an interval between which packets arrive at said end-user from said application server and vice versa, and said certification server makes annunciation to said end-user if said interval is constant, and

wherein said packet monitor device is configured to monitor at least one of a data sequence of said packets, a service identifier of said packets and a checksum of said packets.

- 5. (previously presented): The system as set forth in claim 4, wherein said packet monitor device include:
- (b1) a second memory which stores said monitoring parameter transmitted from said second device;
- (b2) a third memory which stores said threshold parameter transmitted from said second device; and
- (b3) a third device which determines the contents of said second and third memories when said second device transmits a request to said packet monitor device to start or finish monitoring said packet.

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6. (previously presented): The system as set forth in claim 3, wherein said packet

monitor device include:

(b1) a second memory which stores said monitoring parameter transmitted from said

second device;

(b2) a third memory which stores said threshold parameter transmitted from said second

device; and

(b3) a third device which determines the contents of said second and third memories

when said second device transmits a request to said packet monitor device to start or finish

monitoring said packet.

7. (previously presented): The system as set forth in claim 6, wherein said analyzer

analyzes whether there is any rule in said interval and whether said interval exceeds said

threshold parameter, and said annunciator makes annunciation to said end-user when said

analyzer judges that there is a certain rule in said interval and that said interval exceeds said

threshold parameter.

8. (currently amended): A method of monitoring packets transmitted on a channel

connecting an application server and an end-user of said application server to each other, said

method comprising the steps of:

(a) acquiring a monitoring parameter indicative of a packet to be monitored, when said

end-user logs-in his/her terminal;

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(b) monitoring a time at which packets coincident with said monitoring parameter arrive,

and determining whether there is any rule in an interval between a time when the monitoring

parameter is acquired and said arrival time; and

(c) making annunciation to said end-user when there is a certain rule in said interval; and

(d) monitoring at least one of a data sequence of said packet, a service identifier of said

packet and a checksum of said packet;

wherein said monitoring parameter is included in a user management table which further

includes an ID number of said end-user, a password by which said end-user is identified, and a

threshold parameter designating a method of monitoring said packet, and

said step (a) includes the steps of:

(a1) retrieving said user management table, based on said ID number and said

password both input by said end-user;

(a2) acquiring said monitoring parameter, if said monitoring parameter is stored in

said user management table; and

(a3) acquiring said threshold parameter, if said threshold parameter is stored in

said user management table.

9. (previously presented): The method as set forth in claim 8, further comprising the step

of ceasing said step (b) when said end-user logs-out his/her terminal.

10. (canceled).

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11. (previously presented): The method as set forth in claim 8, wherein said step (b)

includes the step of analyzing whether there is a certain rule in said interval and whether said

interval exceeds said threshold parameter, after acquiring said threshold parameter in said step

(a2), and said step (c) includes the step of making annunciation to said end-user, if there is a

certain rule in said interval and said interval exceeds said threshold parameter.

12. and 13. (canceled).

14. (currently amended): A recording medium readable by a computer, storing a program

therein for causing a computer to act as a system for monitoring packets transmitted on a channel

connecting an application server and an end-user of said application server to each other,

said system comprising:

(a) a certification server which certificates the end-user; and

(b) a packet monitor device which, on receipt of a request from said certification

server, monitors packets transmitted on said channel,

wherein said certification server includes:

(a1) a first memory which stores a user management table including ID numbers

of end-users, passwords by which the end-users are identified, a monitoring parameter

designating a packet to be monitored, and a threshold parameter designating a method of

monitoring said packet; and

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(a2) a second device which transmits a request to said packet monitor device to start or finish monitoring said packet at a timing when said end-user logs-in or logs-out his/her terminal,

wherein said packet monitor device includes:

(b1) a fourth memory which stores a first time at which a packet transmitted from one of said application server and said end-user arrives, when said packet monitor device receives a request from said second device to monitor said packet;

(b2) an analyzer which monitors a second time at which packets meeting said monitoring parameter arrive, and determines whether any rule has been satisfied in-during an interval between said first time and said second time; and

(b3) an annunciator which makes annunciation to said end-user when a certain rule is satisfied in-during said interval; and

wherein said packet monitor device is configured to monitor at least one of a data sequence of said packets, a service identifier of said packets and a checksum of said packets.

15. (currently amended): A recording medium readable by a computer, storing a program therein for causing a computer to act as a system for monitoring packets transmitted on a channel connecting an application server and an end-user of said application server to each other,

said system comprising:

- (a) a certification server which certificates the end-user; and
- (b) a packet monitor device which, on receipt of a request from said certification server, monitors packets transmitted on said channel,

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wherein said certification server includes:

(a1) a first memory which stores a user management table including ID numbers

of end-users, passwords by which the end-users are identified, a monitoring parameter

designating a packet to be monitored, and a threshold parameter designating a method of

monitoring said packet; and

(a2) a second device which transmits a request to said packet monitor device to

start or finish monitoring said packet at a timing when said end-user logs-in or logs-out his/her

terminal,

wherein said certification server includes a first device which updates said monitoring

parameter and said threshold parameter, when instructed by said end-user,

wherein said packet monitor device monitors an interval between which packets arrive at

said end-user from said application server and vice versa, and said certification server makes

annunciation to said end-user-if-said interval is constant, and

wherein said packet monitor device is configured to monitor at least one of a data

sequence of said packets, a service identifier of said packets and a checksum of said packets.

16. (previously presented): The recording medium as set forth in claim 15, wherein said

packet monitor device include:

(b1) a second memory which stores said monitoring parameter transmitted from said

second device;

(b2) a third memory which stores said threshold parameter transmitted from said second

device; and

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(b3) a third device which determines the contents of said second and third memories

when said second device transmits a request to said packet monitor device to start or finish

monitoring said packet.

17. (previously presented): The recording medium as set forth in claim 14, wherein said

packet monitor device includes:

(b1) a second memory which stores said monitoring parameter transmitted from said

second device;

(b2) a third memory which stores said threshold parameter transmitted from said second

device; and

(b3) a third device which determines the contents of said memories when said second

device transmits a request to said packet monitor device to start or finish monitoring said packet.

18. (previously presented): The recording medium as set forth in claim 17, wherein said

analyzer analyzes whether there is any rule in said interval and whether said interval exceeds

said threshold parameter, and said annunciator makes annunciation to said end-user when said

analyzer judges that there is a certain rule in said interval and that said interval exceeds said

threshold parameter.

19. (currently amended): A recording medium readable by a computer, storing a program

therein for causing a computer to carry out a method of monitoring packets transmitted on a

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channel connecting an application server and an end-user of said application server to each other, said method comprising-the-steps of:

(a) acquiring a monitoring parameter indicative of a packet to be monitored, when said end-user logs-in his/her terminal;

(b) monitoring a time at which packets coincident with said monitoring parameter arrive, and determining whether there is any rule in an interval between a time when the monitoring parameter is acquired and said arrival time; and

(c) making annunciation to said end-user when there is a certain rule in said interval; and

(d) monitoring at least one of a data sequence of said packet, a service identifier of said packet and a checksum of said packet;

wherein said monitoring parameter is included in a user management table which further includes an ID number of said end-user, a password by which said end-user is identified, and a threshold parameter designating a method of monitoring said packet, and

said step (a) includes the steps of:

- (a1) retrieving said user management table, based on said ID number and said password both input by said end-user;
- (a2) acquiring said monitoring parameter, if said monitoring parameter is stored in said user management table; and
- (a3) acquiring said threshold parameter, if said threshold parameter is stored in said user management table.

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20. (previously presented): The recording medium as set forth in claim 19, wherein said

method further includes the step of ceasing said step (b) when said end-user logs-out his/her

terminal.

21. (canceled).

22. (previously presented): The recording medium as set forth in claim 19, wherein said

step (b) includes the step of analyzing whether there is a certain rule in said interval and whether

said interval exceeds said threshold parameter, after acquiring said threshold parameter in said

step (a2), and said step (c) includes the step of making annunciation to said end-user, if there is a

certain rule in said interval and said interval exceeds said threshold parameter.

23. (previously presented): The method as set forth in claim 8, wherein the end-user is

not performing an administrative function of said application server.

24. (previously presented): The recording medium as set forth in claim 19, wherein the

end-user is not performing an administrative function of said application server.

25. (previously presented): The system as set forth in claim 3, wherein the packet

monitor device is located in the channel between the application server and the end-user.

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26. (new): The system as set forth in claim 3, wherein said packet monitor device is

configured to compare information about said packets to said monitoring parameter.

27. (new): The system as set forth in claim 26, further comprising a counter, wherein

said counter is configured such that, if said rule is satisfied, then said counter is incremented.

28. (new): The system as set forth in claim 27, further comprising a comparator, which

compares said counter to said threshold parameter.

29. (new): The system as set forth in claim 3, wherein said threshold parameter

comprises a duration after which a packet coincides with the monitoring parameter or a service

fee.